

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

1. Claims 1-3 are allowed.

2. Claim 1 recites, inter alia, a PWM cycloconverter comprising:

an input current detecting means for detecting one or more input current of the PWM cycloconverter; and

a PWM converter connected to a DC voltage means, wherein an output unit of the PWM converter is connected to a place before an input filter of the PWM cycloconverter to keep down resonance of the input filter on the basis of an input current signal detected by means of the input current detecting means.

3. The art of record does not disclose nor reasonably suggest the above limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5. Kawabata et al., (Kawabata) US PAT 5,198,970 discloses an AC power supply apparatus.

6. Yamamoto et al., (Yamamoto) US 2003/0052544 discloses a PWM cycloconverter and power fault detector.
7. Tanaka et al., (Tanaka) US PAT 5,504,667 discloses a power conversion system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M'BAYE DIAO whose telephone number is (571)272-6127. The examiner can normally be reached on 8:30-5:00; First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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